

## ABSTRACT:

The invention relates to a method for obtaining MRI images in a vertical main field while using a sub-sampling scheme like SENSE. The invention proposes a number of coil arrangements such that the advantages of SENSE (high speed acquisition) and vertical field (open view for the patient so as to avoid sensations of fear and claustrophobia) are combined. The coil arrangements preferably include butterfly coils and are arranged in such a way that they offer access to the patient and also allow the patient to be moved into and out of the imaging volume without interference by the RF coils.

Figure 7.